

1
INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 97/00875

A. CLASSIFICATION OF SUBJECT MATTER

IPC6: H01F 27/34

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC6: H01F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EDOC, WPIL, JAPIO

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	GB 1438610 A (BBC BROWN BOVERI & COMPANY LIMITED), 9 June 1976 (09.06.76) --	1
A	US 4109098 A (M.G. OLSSON ET AL), 22 August 1978 (22.08.78) -- -----	1

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

30 Sept. 1997

Date of mailing of the international search report

03 -10- 1997

Name and mailing address of the ISA/

Swedish Patent Office
Box 5055, S-102 42 STOCKHOLM
Facsimile No. +46 8 666 02 86

Authorized officer

Magnus Westöö
Telephone No. +46 8 782 25 00

Form PCT/ISA/210 (second sheet) (July 1992)

INTERNATIONAL SEARCH REPORT
Information on patent family members

01/09/97

International application No.

PCT/SE 97/00875

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
GB 1438610 A	09/06/76	AT 335541 B	10/03/77
		BE 817268 A	04/11/74
		BR 7405500 A	03/03/76
		CH 560448 A	27/03/75
		DE 2341983 A	23/01/75
		DE 7330301 U	28/08/75
		FR 2236252 A,B	31/01/75
		JP 50036986 A	07/04/75
US 4109098 A	22/08/78	AR 211382 A	15/12/77
		AU 7707175 A	08/07/76
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		BR 7500229 A	04/11/75
		CA 1038052 A	05/09/78
		CH 587545 A	13/05/77
		DE 2501811 A	14/08/75
		DK 32675 A	29/09/75
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		GB 1493163 A	23/11/77
		JP 50109479 A	28/08/75
		NL 7501168 A	04/08/75
		SE 384420 B,C	03/05/76
		SE 7401244 A	01/08/75

Form PCT/ISA/210 (patent family annex) (July 1992)

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP 98/07727

A. CLASSIFICATION OF SUBJECT MATTER IPC 6 H02K3/40 B60L9/28 H01F27/32 H01F27/28		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 6 H02K B60L H01F		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practical, search terms used)		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X,P	WO 97 45288 A (ASEA BROWN BOVERI ;BJOERKLUND ANDERS (SE); LEIJON MATS (SE)) 4 December 1997 see abstract; claims ---	1,6,7, 13-21
X,P	WO 97 45847 A (ASEA BROWN BOVERI ;LEIJON MATS (SE)) 4 December 1997 see abstract ---	6
A	DE 195 47 229 A (ASEA BROWN BOVERI) 19 June 1997 see abstract ---	1
A	DE 40 22 476 A (THYSSEN INDUSTRIE ;KABELMETAL ELECTRO GMBH (DE)) 16 January 1992 see claims ---	1
-/-		
<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex.		
* Special categories of cited documents : "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family		
Date of the actual completion of the International search 27 April 1999		Date of mailing of the International search report 06/05/1999
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Authorized officer Ramos, H

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP 98/07727

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 091 138 A (NISHIYAMA TATSUICHIRO ET AL) 23 May 1978 see abstract ----	1
A	US 5 036 165 A (ELTON RICHARD K ET AL) 30 July 1991 see figure 1 ----	1
A	US 3 571 690 A (APSIT VOLDEMAR VOLDEMAROVICH) 23 March 1971 -----	7

REC'D 03 MAR 2000

WIPO PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference KN8372-T.WBH		FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/EP 98/ 07727	International filing date (day/month/year) 30/11/1998	Priority date (day/month/year) 28/11/1997	
International Patent Classification (IPC) or national classification and IPC H02K3/40			
Applicant ABB AB et al.			

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.


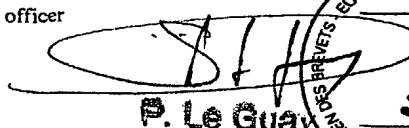

2. This **REPORT** consists of a total of 7 sheets, including this cover sheet.

☐ This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consists of a total of _____ sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☒ Certain documents cited
- VII ☒ Certain defects in the international application
- VIII ☒ Certain observations on the international application

Date of submission of the demand 11/06/1999	Date of completion of this report
Name and mailing address of the IPEA/  European Patent Office D-80298 Munich Tel. (+49-89) 2399-0, Tx: 523656 epmu d Fax: (+49-89) 2399-4465	Authorized officer  P. Le Guay 

I. Basis of the report

1. This report has been drawn up on the basis of *(Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments.)*

☒ the international application as originally filed

☐ the description, pages

, as originally filed

pages

, filed with the demand

pages

, filed with the letter of

☐ the claims, Nos.

, as originally filed

Nos.

, as amended under Article 19

Nos.

, filed with the demand

Nos.

, filed with the letter of

☐ the drawings, sheets / fig.

, as originally filed

sheets / fig.

, filed with the demand

sheets / fig.

, filed with the letter of

2. The amendments have resulted in the cancellation of:

☐ the description, pages:

☐ the claims, Nos.

☐ the drawings, sheets / fig.

3. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2 (c)).

4. Additional observations, if necessary:

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**1. Statement**

Novelty	Claims	1-21	YES
	Claims	None	NO
Inventive Step	Claims	1-21	YES
	Claims	None	NO
Industrial Applicability	Claims	1-21	YES
	Claims	None	NO

2. Citations and Explanations**1. Concerning Claim 1:**

- a) Claim 1 relates to a 3-phase traction motor.
- b) The purpose of the invention is to fit said motor with a high-voltage winding.
- c) Nearest prior art is Document DE-A-4 022 476 which discloses a high-voltage cable for a linear motor.
- d) Claim 1 discloses a high-voltage cable for a rotating motor, therefore the subject-matter of Claim 1 is new with respect to the state of the art in general and to DE'476 in particular (Article 33(2) PCT). Moreover, the installation of the cable according to DE'476 along a track is quite different than the winding of a rotating motor and consequently the man skilled in the art of motor would clearly not consider the teaching of DE'476. It then appears that the use of a cable according to DE'476 in a rotating traction motor is not obvious. Therefore Claim 1 also involves an inventive step (Article 33(3) PCT).

2. Concerning Claims 6 and 7:

Claims 6 and 7 relate to respectively a transformer and a rotating converter utilizing the same high-voltage cable as stated in Claim 1.

Therefore the subject-matter of Claims 6 and 7 is new and involves an inventive step.

3. Concerning Claims 2 to 5 and 8 to 21:

These claims are depending from independent Claim 1, 6 or 7 and disclose particular embodiments of the invention.

They are therefore to be considered as new and as involving an inventive step.

4. The industrial applicability of the motor and the drive system according to claims 1 to 21 is obvious.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP98/07727

VI. Certain documents cited

1. Certain published documents (Rule 70.10)

Application no. Patent No.	Publication date (day/month/year)	Filing date (day/month/year)	Priority date (valid claim) (day/month/year)
WO-A-9 745 288	04.12.97	27.05.97	29.05.96*
WO-A-9 745 847	04.12.97	27.05.97	29.05.96*

* Although not belonging to the state of the art according to rule 64.1(b) PCT, these documents seem to disclose all the features of at least Claims 1, 6 and 7.

It has not been checked if the claimed priorities are valid.

2. Non-written disclosures (Rule 70.9)

Kind of non-written disclosure	Date of non-written disclosure (day/month/year)	Date of written disclosure referring to non-written disclosure (day/month/year)
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VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

1. Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in the document DE-A-4 022 476 is not mentioned in the description, nor is this document identified therein.
2. The features of the claim/s are not provided with reference signs placed in parentheses (Rule 6.2(b) PCT).

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

1. It is clear from the description on page 3, lines 4 to 7; page 5, lines 6 to 11 and page 8, lines 1 to 6, that the following features are essential to the definition of the invention:

- (1) the motor can be directly connected to a high supply voltage up to between 10 and 800 kV (page 8 and Claim 21);

- (2) the motor is a rotating motor.

Since independent claims 1, 6 and 7 feature 1 and claim 1 (feature 2) do not contain these features it does not meet the requirement following from Article 6 PCT taken in combination with Rule 6.3(b) PCT that any independent claim must contain all the technical features essential to the definition of the invention.

2. The feature of claim 14 that the flux paths in the core of a magnetic circuit in the motor, transformer or rotating converter consists of laminated sheet plate and/or rough forged iron and/or cast iron and/or powder-based iron is not referred to in the description. Claim 14 is therefore not supported by the description as required by Article 6 PCT.

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference KN8372-T.WBH	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/EP 98/ 07727	International filing date (day/month/year) 30/11/1998	(Earliest) Priority Date (day/month/year) 28/11/1997
Applicant ASEA BROWN BOVERI AB et al.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 3 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.

☒ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

2

☐ None of the figures.

(PCT Rule 61.2)

To:

United States Patent and Trademark
Office
(Box PCT)
Crystal Plaza 2
Washington, DC 20231
ÉTATS-UNIS D'AMÉRIQUE

in its capacity as elected Office

Date of mailing (day/month/year)

23 July 1999 (23.07.99)

International application No.

PCT/EP98/07727

Applicant's or agent's file reference

KN8372-T.WBH

International filing date (day/month/year)

30 November 1998 (30.11.98)

Priority date (day/month/year)

28 November 1997 (28.11.97)

Applicant

LEIJON, Mats et al

1. The designated Office is hereby notified of its election made:

☒ in the demand filed with the International Preliminary Examining Authority on:

11 June 1999 (11.06.99)

☐ in a notice effecting later election filed with the International Bureau on:

2. The election ☒ was
☐ was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Facsimile No.: (41-22) 740.14.35

Authorized officer

F. Baechler

Telephone No.: (41-22) 338.83.38

PATENT COOPERATION TREATY

PCT

From the INTERNATIONAL BUREAU

NOTIFICATION OF THE RECORDING
OF A CHANGE(PCT Rule 92bis.1 and
Administrative Instructions, Section 422)

To:

NEWBY, Martin, John
J.Y. & G.W. Johnson
Kingsbourne House
229-231 High Holborn
London WC1V 7DP
ROYAUME-UNI

Date of mailing (day/month/year)

05 August 1999 (05.08.99)

Applicant's or agent's file reference

KN8372-T.WBH

IMPORTANT NOTIFICATION

International application No.

PCT/EP98/07727

International filing date (day/month/year)

30 November 1998 (30.11.98)

1. The following indications appeared on record concerning:

☒ the applicant ☐ the inventor ☐ the agent ☐ the common representative

Name and Address

ASEA BROWN BOVERI AB
S-721 78 Västerås
Sweden

State of Nationality

SE

State of Residence

SE

Telephone No.

Facsimile No.

Teleprinter No.

2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning:

☐ the person ☐ the name ☒ the address ☐ the nationality ☐ the residence

Name and Address

ASEA BROWN BOVERI AB
S-721 83 Västerås
Sweden

State of Nationality

SE

State of Residence

SE

Telephone No.

Facsimile No.

Teleprinter No.

3. Further observations, if necessary:

4. A copy of this notification has been sent to:

☒ the receiving Office ☐ the designated Offices concerned
☐ the International Searching Authority ☒ the elected Offices concerned
☒ the International Preliminary Examining Authority ☐ other:The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Facsimile No.: (41-22) 740.14.35

Authorized officer

R. Raissi

Telephone No.: (41-22) 338.83.38

PATENT COOPERATION TREATY

PCT

From the INTERNATIONAL BUREAU

NOTIFICATION OF THE RECORDING
OF A CHANGE(PCT Rule 92bis.1 and
Administrative Instructions, Section 422)

To:

NEWBY, Martin, John
J.Y. & G.W. Johnson
Kingsbourne House
229-231 High Holborn
London WC1V 7DP
ROYAUME-UNI

Date of mailing (day/month/year) 07 October 1999 (07.10.99)	IMPORTANT NOTIFICATION
Applicant's or agent's file reference KN8372-T.WBH	
International application No. PCT/EP98/07727	International filing date (day/month/year) 30 November 1998 (30.11.98)

1. The following indications appeared on record concerning:

☒ the applicant
 ☐ the inventor
 ☐ the agent
 ☐ the common representative

Name and Address ASEA BROWN BOVERI AB S-721 83 Västerås Sweden	State of Nationality SE	State of Residence SE
	Telephone No.	
	Facsimile No.	
	Teleprinter No.	

2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning:

☐ the person
 ☒ the name
 ☐ the address
 ☐ the nationality
 ☐ the residence

Name and Address ABB AB S-721 83 Västerås Sweden	State of Nationality SE	State of Residence SE
	Telephone No.	
	Facsimile No.	
	Teleprinter No.	

3. Further observations, if necessary:

4. A copy of this notification has been sent to:

<input checked="" type="checkbox"/> the receiving Office	<input type="checkbox"/> the designated Offices concerned
<input type="checkbox"/> the International Searching Authority	<input checked="" type="checkbox"/> the elected Offices concerned
<input checked="" type="checkbox"/> the International Preliminary Examining Authority	<input type="checkbox"/> other:

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No.: (41-22) 740.14.35	Authorized officer P. Regis Telephone No.: (41-22) 338.83.38
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INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 98/07727

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9745288	A	04-12-1997	AU 2987397 A	05-01-1998
			AU 2987597 A	05-01-1998
			AU 2987997 A	05-01-1998
			AU 2988097 A	05-01-1998
			AU 2988197 A	05-01-1998
			AU 2988297 A	05-01-1998
			AU 2988397 A	05-01-1998
			AU 2988497 A	05-01-1998
			AU 2988597 A	05-01-1998
			AU 2988697 A	05-01-1998
			AU 2988797 A	05-01-1998
			AU 2988897 A	05-01-1998
			AU 2988997 A	05-01-1998
			AU 2989097 A	05-01-1998
			AU 2989197 A	05-01-1998
			AU 2989297 A	05-01-1998
			AU 2989397 A	05-01-1998
			AU 2989497 A	05-01-1998
			AU 3052197 A	05-01-1998
			AU 3052297 A	05-01-1998
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			CA 2255769 A	04-12-1997
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			CA 2255772 A	04-12-1997
			CZ 9803868 A	17-02-1999
			CZ 9803879 A	17-02-1999
			CZ 9803881 A	17-03-1999
			CZ 9803882 A	17-02-1999
			EP 0901700 A	17-03-1999
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			AU 2988097 A	05-01-1998
			AU 2988197 A	05-01-1998
			AU 2988297 A	05-01-1998

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 98/07727

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9745847 A		AU 2988397 A	05-01-1998
		AU 2988497 A	05-01-1998
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INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 98/07727

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